

ABSTRACT

The invention provides neuropeptide ligands, G protein-coupled receptors and methods of screening for modulators of receptor activity. Identified modulators, including neuropeptide ligand mimetics, are useful as biostatic and biocidal agents of varying scope, ranging from lethal activity restricted to particular invertebrate parasites to broad spectrum invertebrate parasiticides active on a wide range of invertebrates, including helminths and insects.

5